

Thesis Title	Satellite Imagery Data Compression using Vector Quantization
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Abstract

The transmission of satellite image data from an organization to another through public communication network is used for change detection task such as a detection of illegal deforestation. It is necessary to transmit frequently an enormous amount of data. This will cause a high cost and need a huge transmission bandwidth. This thesis presents a satellite image data compression technique via vector quantization before transmission. The proposed technique will give a high compression ratio. And the decoder is very simple to implement. So the cost and transmission bandwidth will be reduced.